

Studs

Fully Threaded / Stud Bolts / Hex Head Stud Bolts

Fully Threaded Studs

Type	Material	Surface Treatment
ANE	1018 Carbon Steel	Black Oxide
ANES	304 Stainless Steel or Equivalent	—

RoHS10

Screw Precision Thread gauge class 3 used.

Part Number Example: ANE10-300, ANES16-500

Part Number		M x P
Type	M - L	
ANE ANES	6 - 100 200 300	6 x 1.0
	8 - 100 200 300	8 x 1.25
	10 - 100 200 300 500	10 x 1.5
	12 - 100 200 300 500	12 x 1.75
	16 - 100 200 300 500	16 x 2.0

Stud Bolts

STDN Both Ends Right-Hand Screws

M	P
8	1.25
10	1.5
12	1.75
16	2.0
20	2.5

Material: 1045 Carbon Steel or Equivalent
Hardness: 32~38 HRC min.
Surface Treatment: Black Oxide

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Part Number		L	F	E	B
Type	M				
STDN	8	50	20	6	6
		75	30	6	
		100	40	10	
		125	40	15	
		150	40	15	
		175	40	15	
	10	50	20	6	8
		75	30	6	
		100	40	10	
		125	40	15	
		150	40	15	
		175	40	20	
12	50	20	6	10	
	75	30	6		
	100	40	10		
	125	40	15		
	150	40	15		
	175	40	20		
200	40	20			

Part Number		L	F	E	B
Type	M				
STDN	16	75	30	8	13
		100	40	10	
		125	40	15	
		150	40	15	
		175	40	20	
		200	40	20	
	20	225	60	20	17
		250	60	25	
		300	60	25	
		100	40	10	
		125	40	15	
		150	40	15	

When L=100 or less, no straight part exists.

Part Number Example: STDN10 - 100

Part Number		M x Pitch	L	F	H	B	g
Type	M						
RSBB RSBM	3	3 x 0.5	7.5	4	2	6	1
	4	4 x 0.7	10	5		7	1.2
	5	5 x 0.8	12.5	7	3	8	1.4
	6	6 x 1.0	15	8		10	1.5
	8	8 x 1.25	20	11		13	
10	10 x 1.5	25	14	4	17	2	

Part Number Example: RSBB8

Hex Head Stud Bolts

Type	Material	Hardness	Surface Treatment
RSBB	1045 Carbon Steel	35~40 HRC min.	Black Oxide
RSBM	or Equivalent		Electroless Nickel Plating

RoHS10

Studs

Configurable Length Screws with Hex Sockets

Configurable Length Screws with Hex Sockets

Type				Material	Surface Treatment	M	Thread Pitch		B
Fully Threaded Screws		Both Ends Right-Hand Screws					Coarse	Fine	
Coarse	Fine	Coarse	Fine						
FABB	FABBP	FWBB	FWBBP	1045 Carbon Steel or Equivalent	Black Oxide Electroless Nickel Plating	4	0.7	—	2
FABBN	—	FWBBN	—			5	0.8	0.5	2.5
FABBS	FABBS P	FWBBS	—			6	1	0.75	3
				304 Stainless Steel or Equivalent	—	8	1.25	1	4
						10	1.5	1.25	5
						12	1.75	—	6
						16	2	—	8
						20	2.5	1.5	10

Fully Threaded Studs: Selectable Length (FABB, FABBS)

Part Number		L								Thread Pitch	B
Type	M	5	6	8	10	12	16	20			
Coarse FABB	5	30	35	40	50	60	70	80	100	0.8	2.5
	6	30	35	40	50	60	70	80	100	1	3
	8	30	35	40	50	60	70	80	100	1.25	4
	10	30	35	40	50	60	70	80	100	1.5	5
	12	30	35	40	50	60	70	80	100	1.75	6
	16	30	35	40	50	60	70	80	100	2	8

Part Number		L								Thread Pitch	B
Type	M	5	6	8	10	12	16	20			
Coarse FABBS	5	35	40	45	50	60	80	100	0.8	0.5	
	6	30	35	40	45	50	60	80	1	0.75	
	8	30	35	40	45	50	60	80	1.25	1	
	10	30	35	40	45	50	60	80	1.5	1.25	

Part Number Example: FABB5 - 30

Fully Threaded Studs: Configurable Length

Part Number		L		Available Types											
Type	M	1 mm Increment		L20-100				L101-200				L201-400			
				FABB	FABBN	FABBS	FABBP	FABB	FABBN	FABBS	FABBP	FABB	FABBN	FABBS	FABBP
Coarse FABB	4	20-45		•	•	•	•	•	•	•	•	•	•	•	•
	5	20-250		•	•	•	•	•	•	•	•	•	•	•	•
	6	20-250		•	•	•	•	•	•	•	•	•	•	•	•
	8	20-400		•	•	•	•	•	•	•	•	•	•	•	•
Fine FABBP	10	20-400		•	•	•	•	•	•	•	•	•	•	•	•
	12	20-400		•	•	•	•	•	•	•	•	•	•	•	•
	16	20-400		•	•	•	•	•	•	•	•	•	•	•	•
	20	20-400		•	•	•	•	•	•	•	•	•	•	•	•

Both Ends Right-Hand Screws: Configurable Length

Part Number		1 mm Increment		Available Types											
Type	M	L	F	L20-100				L101-200				L201-400			
				FWBB	FWBBN	FWBBS	FWBBP	FWBB	FWBBN	FWBBS	FWBBP	FWBB	FWBBN	FWBBS	FWBBP
Coarse FWBB	4	20-150	0-100	•	•	•	•	•	•	•	•	•	•	•	•
	5	20-250	0-100	•	•	•	•	•	•	•	•	•	•	•	•
	6	20-250	0-100	•	•	•	•	•	•	•	•	•	•	•	•
	8	20-400	0-100	•	•	•	•	•	•	•	•	•	•	•	•
Fine FWBBP	10	20-400	0-100	•	•	•	•	•	•	•	•	•	•	•	•
	12	20-400	0-100	•	•	•	•	•	•	•	•	•	•	•	•
	16	20-400	0-100	•	•	•	•	•	•	•	•	•	•	•	•
	20	20-400	0-100	•	•	•	•	•	•	•	•	•	•	•	•

Es=Mx5 F=0 or M/2<=F<=Mx5 When E=0 (F=0), threads are not machined on the dimension E (or F) dimension side.

Part Number Example: FABB6 - 75, FWBBS6 - 100 - E10 - F10

Part Number Alterations Example: FABBS - 100 - SWC

Alterations	Code	Spec.												
Slit	SWC	W dimensions are as follows. <table border="1"> <tr><th>M</th><th>W</th></tr> <tr><td>4, 5</td><td>1</td></tr> <tr><td>6, 8</td><td>1.5</td></tr> <tr><td>10</td><td>2</td></tr> <tr><td>12, 16</td><td>2.5</td></tr> <tr><td>20</td><td>3</td></tr> </table>	M	W	4, 5	1	6, 8	1.5	10	2	12, 16	2.5	20	3
M	W													
4, 5	1													
6, 8	1.5													
10	2													
12, 16	2.5													
20	3													
Hexagonal sockets on the right end.	RAC	<ul style="list-style-type: none"> The phase of hexagonal sockets on both ends are arbitrary. Not applicable to L<=50. 												